

FORM NO. 51-61A
MAY 1949

50X1-HUM

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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

CD NO.

COUNTRY **USSR**

DATE DISTR. **30 Oct. 1950**

SUBJECT **Technical Data on Soviet Aircraft IL-12
(Civil Version)**

NO. OF PAGES **1**

PLACE ACQUIRED
DATE OF ACQUISITION

NO. OF ENCLS.
(LISTED BELOW)

SUPPLEMENT TO REPORT NO. **50X1-HUM**

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The attached report on the technical specifications of the Soviet aircraft IL-12 is being sent to you for retention in the belief that it may be of interest.

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1. Fuel Capacity: 6,000 litres
2. All up Weight: 17,200 kilogrammes (including 750 kgs. pay load with Full tanks).
3. Aluminium Variable Pitch: 4 bladed, hydraulically actuated air screw.
4.
 - a. Most Economical Cruising Speed: 290-300 kilometres per hour, at 2,000 revolutions per minute and 700 millimetre boost.
 - b. Maximum cruising speed: 360 kilometres per hour, at 2,100 revolutions per minute and 800 millimetre boost.
 - c. Maximum speed: 430 kilometres per hour, at 2,400 revolutions per minute and 1,200 millimetre boost.
5. Service Ceiling: 2,100 metres.
6. Range: 3,000 kilometres.
7. Endurance: 10 hours with pay load of 750 kilogrammes.
8. De-Icing Equipment
 - a. Wings: Internal hot air ducts supplied from engines (not efficient).
 - b. Air Screws: Alcohol spray.
 - c. Wind Screens: Alcohol spray.
 - d. Tail Section: Hot air ducts supplied from petrol stove.
De-icing controls are located on the Starboard side of the Pilot's cabin.
9. Engine: 18 cylinder. Two banks of 9, developing 1,800 horse power. Air cooled with direct fuel injection. Compressed air starting located on port side of pilot's cabin. 2 stage supercharger - the second stage is never used. Maximum boost - 1,200 millimetres (atmospheres).

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10. Under-Carriage. Hydraulically operated (8 seconds up, 6 seconds down). Emergency hand pump to all 3 wheels plus emergency compressed air system to nose wheel. Emergency compressed air is supplied to the nose wheel from a bottle.
11. Brakes: Hydraulically operated with compressed air emergency brakes.
12. Take-Off and Landing Data:
Take-off (without wind) 2,400 revolutions per minute, 1,200 millimetres boost fully loaded. After 800 metres aircraft should be 20 metres from the ground. Landing (without wind) with brakes, 540 metres; without brakes 1,200 metres.
13. Radio Aerials:
 - a. Trailing aerial.
 - b. Fixed aerial from mast to tail.
 - c. Bendix type aerial to radio compass.
 - d. Half radio compass aerial.
 - e. D. F. aerial.
14. Radio Installation: W/T - Short and Medium waves and 2 way R/T set. (The Russian R/T sets, supplied with the aircraft to the Polish State Airlines, proved ineffective, and so American built V.H.F. sets have been fitted by the Poles.)
15. Fire Extinguishing Equipment:
 - a. Fuel cut-outs to both engines.
 - b. Both engines are fitted with an automatic type fire extinguisher which comes into operation automatically at a given temperature.
 - c. There are 4 hand type fire extinguishers inside the aircraft, 2 in the crew's cabin and 2 in the fuselage.
16. Military Version: The military version of the IL-12 has a specially strengthened floor, and 4 extra fuselage bracings, and an extra door fitted on the starboard side of the aircraft, measuring approximately $2\frac{1}{2}$ metres wide by 1.5 metres high.